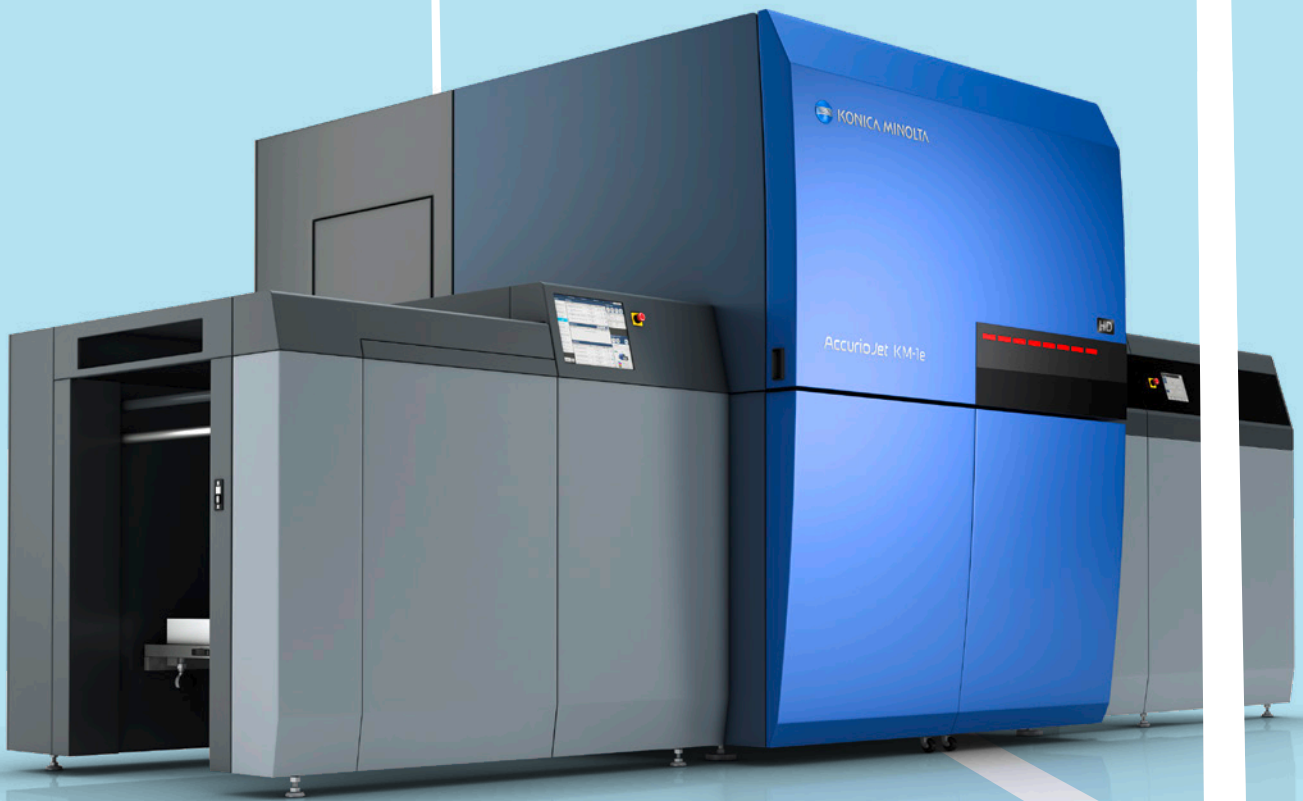


KONICA MINOLTA

AccurioJet KM-1e with **HD**

THE NEW AccurioJet KM-1e with HD

RETHINK QUALITY



Giving Shape to Ideas

PRINT QUALITY AT THE HIGHEST LEVEL

Creating a highly print quality, colour-accurate digital press platform, the AccurioJet KM-1e with HD now incorporates an even more advanced inkjet printhead design with patented Dot Freeze Technology™ paired with unheard-of versatility in offset substrate handling. Our latest digital UV inkjet press combines the print materials and stability characteristic of offset presses with the benefits of latest digital technology. Take advantage of its amazing media flexibility and zero make-ready for variable data printing and production on oversized B2 sheets.

Outstanding image quality

Extend and enhance your application capabilities with LED UV inkjet and Konica Minolta's patented Dot Freeze Technology™. Our proprietary edge-processing technology achieves a sharper text quality while true 1200 x 1200 dpi resolution and an amazingly wide colour gamut give you virtually unlimited creative applications.

Singular reliability and consistency

Impress your customers with superb results from the first print to thousands of printed pages of identical top quality, guaranteed by the AccurioJet KM-1e with HD's absolute colour consistency and singular registration accuracy. Inline sensors ensure continuous image quality control and automatic correction, effectively ruling out image quality degradation. Mechanical front and side lays combined with material grippers deliver best in class registration.

Amazing productivity

Achieve high-volume printing with ease! Up to 3,000 sheets per hour, automatic duplex printing with no delay for ink drying, flexible imposition onto the wide B2+ media size (585 x 750 mm), large-capacity media input and output, minimal downtime thanks to self-maintenance by the operator – all this adds up to shortest turnaround times and extreme time savings compared to offset production! Important advantages that, as a commercial printer or other high-end press user, you know to appreciate.

Unprecedented media flexibility

Increase your scope with the AccurioJet KM-1e with HD – say yes to new customers and jobs that are more profitable! Work with an unprecedented array of specialist media including heavy textured, canvas, metallic, translucent, packaging carton stock and plastics* – our “Swiss army knife of printing technologies” makes multitasking a breeze and lets you switch between applications easily and efficiently without compromising on quality.

* Due to their nature, some plastics may require pre-treatment such as Corona or primer



SUPERB RELIABILITY AND CONSISTENCY

RETHINK RELIABILITY

Reliably produces printed products of stable high quality. AccurioJet KM-1e with HD uses paper-handling technology identical to that in an offset printer to ensure reliable and stable paper handling. In addition, the use of UV ink ensures highly accurate registration and minimal nozzle clogging to deliver stable image quality.



SUPERB COLOUR CONSISTENCY

Allows perfect colour matching of jobs with repeatable results within a tolerance of ΔE 1.5. This patented process ensures perfect inkjet operation, allowing jobs to be instantly moved to finishing, thus saving time and money.

GREATER REGISTRATION ACCURACY

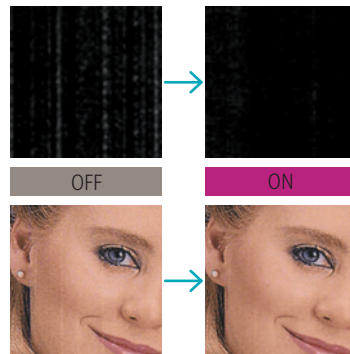
The use of UV ink eliminates problems such as waviness or curling commonly occurring during processes such as thermal fixing and drying to achieve superb print quality and highly accurate registration.

PAPER HANDLING TECHNOLOGY IDENTICAL TO OFFSET PRINTING

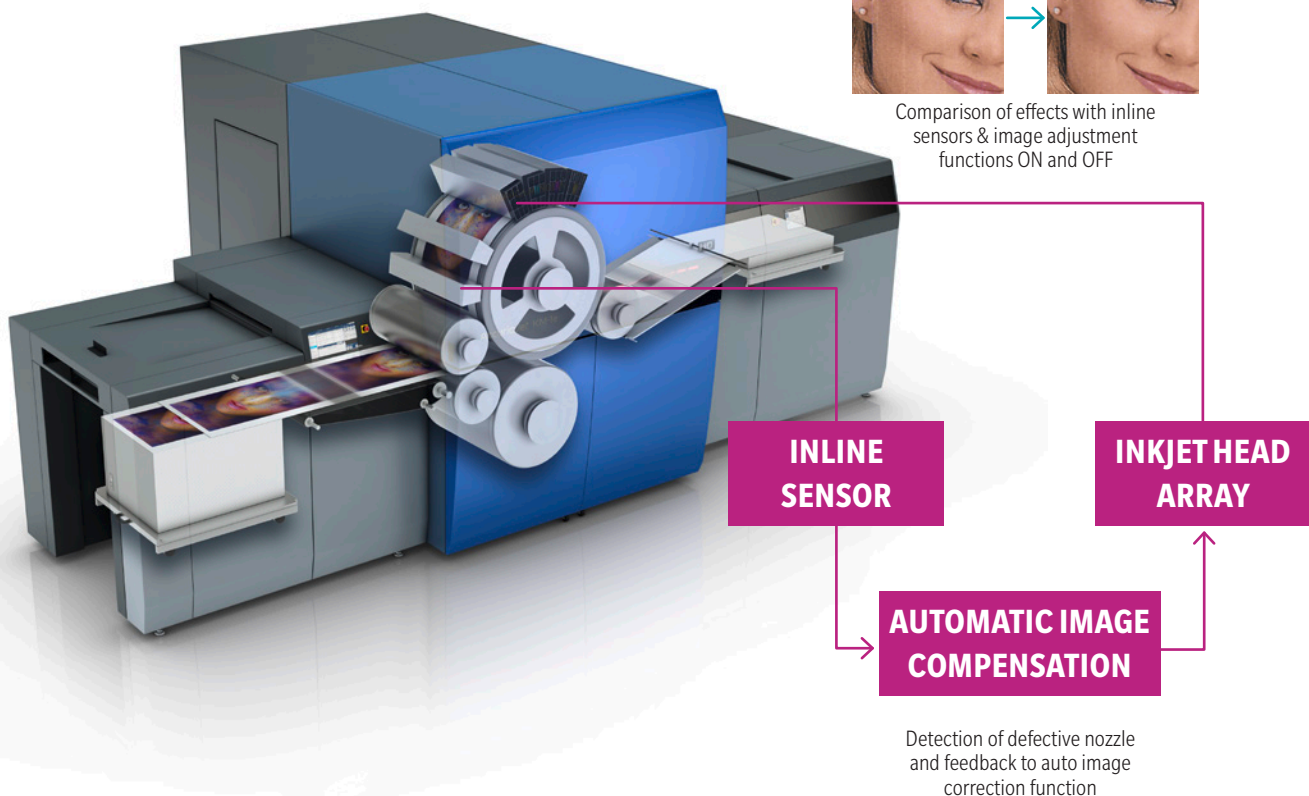
AccurioJet KM-1e with HD is fully equipped with an offset-equivalent transport mechanism including functions such as air blower, vacuum suction, dram suction, paper stretch suction and claw grip feeding to ensure stable paper transport and highly accurate registration.

IMAGE QUALITY CONTROL BY INLINE SENSOR

AccurioJet KM-1e with HD is furnish with an internal inline sensor that automatically detects and corrects image flaws. The inline sensor minimises image quality degradation caused by nozzle defects in the inkjet system.



Comparison of effects with inline sensors & image adjustment functions ON and OFF







HIGH PRODUCTIVITY FOR THE SHORTEST TURNAROUND

RETHINK PRODUCTIVITY

High productivity of up to 3,000 sheets/hour with the maximum paper size with the auto duplex printing function enables customers to provide the fastest delivery service.

HIGH PRODUCTIVITY OF UP TO 3,000 SHEETS/HOUR

Capable of output of up to 3,000 sheets/hour/simplex of the maximum paper size (585×750 mm) and up to 1,500 sheets/hour in the automatic duplex printing mode.

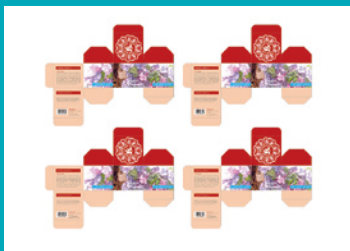
AUTOMATIC DUPLEX PRINTING WITH NO DRYING TIME

Capable of automatic duplex printing with no drying time. Elimination of waiting time contributes to reduced overall production time. And with capability of Auto duplex printing: 0.06 to 0.45 mm thickness

COMMON B2+: 530 X 750 MM

KM-1E HD B2+: 585 X 750 MM

Small size package



8.5 x 11 inch Letter size



WIDER MEDIA SIZE IMPROVES FLEXIBILITY AND PRODUCTIVITY

The wider B2+ size, 585×750mm, enables flexible imposition to achieve even higher productivity.

MACHINE DESIGN THAT MINIMISES DOWNTIME

The machine is design to be maintaine by the operator. This means reduced downtime caused by visits by service engineers, contributing to improved operating ratio.

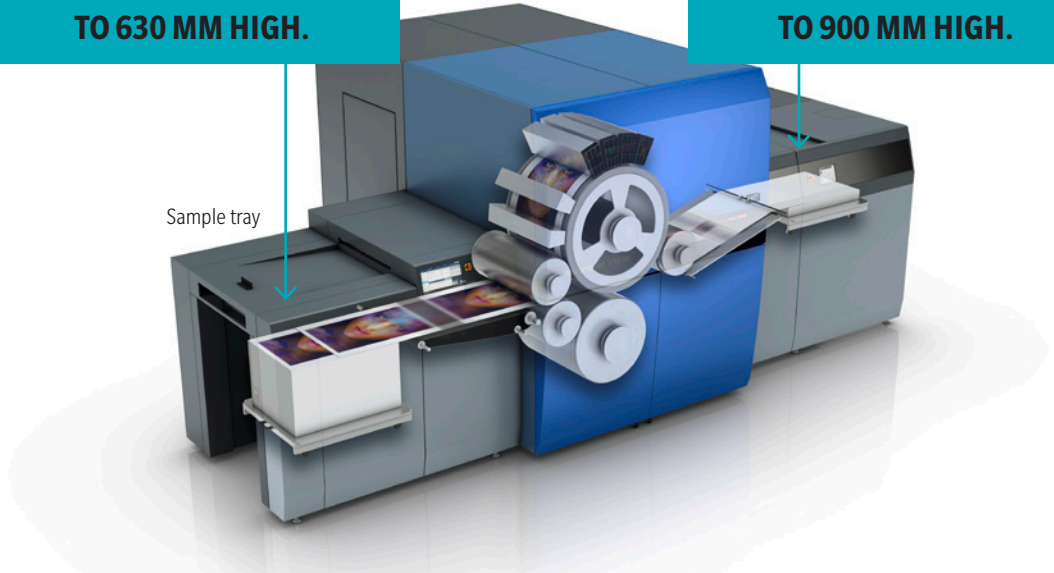
LARGE CAPACITY PAPER FEED/ STACK SYSTEMS FOR HIGH VOLUME RUNS

The feeder can accept paper up to 900 mm high and the stacker up to 680mm high. In addition, a sample tray is equipped for quality checks or small lot printing.

LARGE CAPACITY STACKER THAT CAN HOLD PAPER UP TO 630 MM HIGH.

LARGE CAPACITY STACKER THAT CAN HOLD PAPER UP TO 900 MM HIGH.

Sample tray

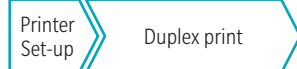


Outstanding overall productivity for shortest turnarounds

Elimination of the need to make and set plates in the press ensures shorter set-up time and the auto duplex printing capability realizes outstanding overall productivity.



GENERAL OFFSET PRINTER

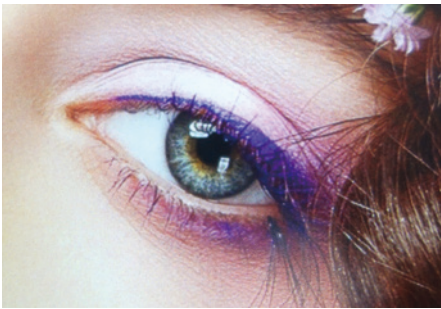


Accuriojet KM-1e with HD

Shorter production time & turnaround

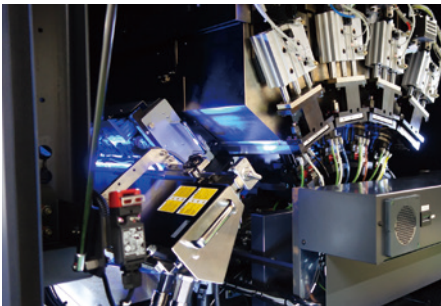
YOUR ADVANTAGES WITH THE AccurioJet KM-1e with HD

RETHINK INKJET



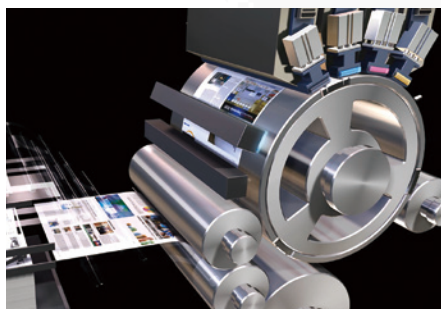
UV INKJET INK

UV ink, which enables printing on various media including offset stock without the need for pre-coating. Light-curable UV ink reduces damage to the paper, which is often the case with heat drying, thus consistently providing high-quality prints.



LONG LIFE UV LEDs

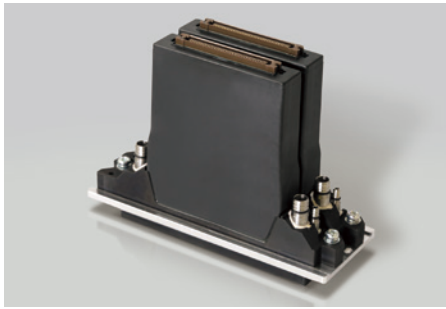
UV LED has a larger life and provides highly consistent UV light. The various merits include less damage to the paper because almost no heat is generated, as well as no ozone emissions. LED UV also offers the advantages of shorter heating and cooling time.



INLINE SENSORS

Detection of imaging errors by inline sensors ensures consistently high-quality image output.





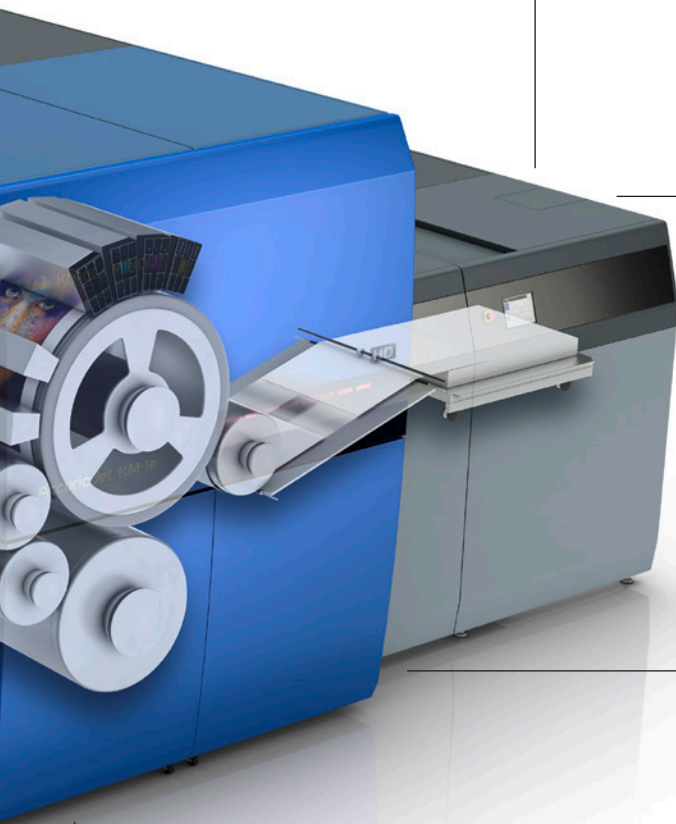
HIGH-PRECISION INKJET HEADS

High-density heads with 600 nozzles per inch. Two of these are incorporated into a module to achieve high resolution output of 1,200 dpi.



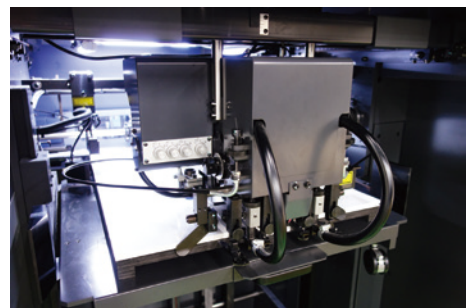
INKJET HEAD MODULE

The print bar is composed of an array of high-resolution/high-frequency heads. High quality images are reproduced in a single pass at speed as high as up to 3,000 sheets/hour.



NEW MEDIA SENSORS

Various new sensors are adopted for secure handling of new media such as transparent, metallic and coloured types to enable customers to expand their print services.



HIGHLY STABLE PAPER TRANSPORT

KM-1e HD is equipped with an offset-equivalent transport mechanism including functions such as air blower, vacuum suction, dram suction, paper stretch suction and claw grip feeding to ensure unflinching stable paper transport

CUTTING-EDGE INNOVATIONS

RETHINK TECHNOLOGY

Patented Dot Freeze Technology™

For its unique, proprietary Dot Freeze Technology™, Konica Minolta developed a variety of inkjet technologies including an innovative 1200 dpi printhead as well as a patented ink formulation. Further enhancing the output quality, an image correction system checks the print quality of every printed sheet – giving you peace of mind because your customers will always get top print quality as well as perfectly matched colours within a tolerance of ΔE 1.5.

Patented LED UV B2+ inkjet process

Developed in-house, Konica Minolta's Dot Freeze Technology™ is a patented LED UV curable inkjet printing process that prints perfected high definition images in a single print process on the widest range of materials without any need for priming or post coating – whether coated or uncoated and independent of sheet thickness or material type.

High viscosity ink system

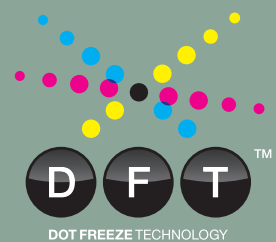
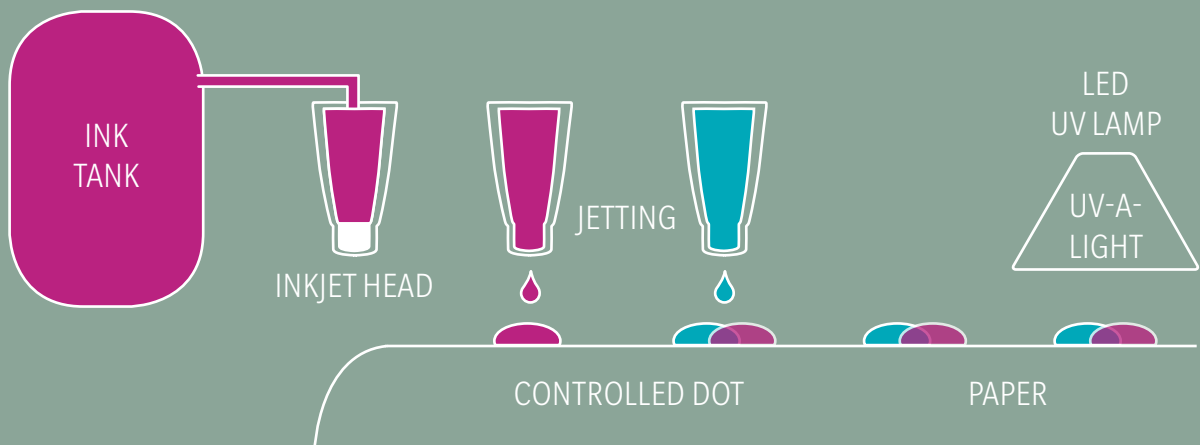
Our unique Dot Freeze Technology™ controls each printed dot on contact with the material, preventing ink dots from coalescing or bleeding. This is achieved with a unique high viscosity ink system that allows reliable jetting due to much lower viscosity at that moment but instantly “freezes” the ink upon contact with the substrate – thus preventing uncontrolled movement of the ink dot and avoiding too deep penetration of the ink into uncoated materials. The result is exceptional colour stability on both coated and uncoated materials in the widest working temperature environment of any digital press in the world. Users achieve sharp crisp text and a wide gamut with vibrant colours that jump off the page.

Consistent print results

LED UV curing technology applies minimal heat to the substrate and is designed to deliver consistent results for thousands of hours of operation. Since UV curable inks are used, there is no water to be driven out of the print, eliminating typical issues associated with drying such as material distortion, ability to perfect and excessive heat.

KONICA MINOLTA LED UV INK "DOT FREEZE TECHNOLOGY™"

PROCESS	INK TANK	JETTING	ON PAPER	CURED BY LED UV
VISCOSITY	HIGH	LOW VISCOSITY FOR STABLE JETTING		HIGH VISCOSITY FOR CONTROLLED DOT
	LOW			







OUTSTANDING RESULTS

RETHINK IMAGE QUALITY

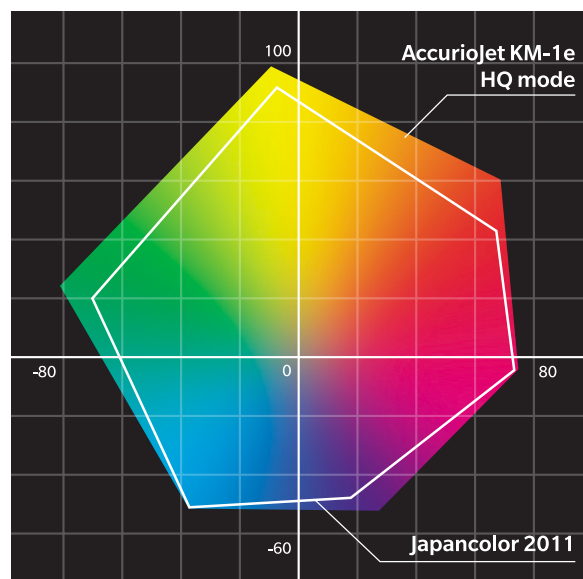
New high-definition print heads provide top image quality of 1200 dpi to create effects such as superb skin tone with less graininess and a natural-gloss look.

Top image quality of 1,200 x 1,200 dpi

The cutting-edge inkjet print heads, unique UV ink and innovative half-tone processing technologies in the AccurioJet KM-1e with HD achieve an impressive 1,200 dpi image quality – for picture-perfect print results.

Sharp text quality

Konica Minolta's original proprietary font edge-processing technology realizes excellent text quality with sharpness and legibility even for small and very small font sizes.



Wider colour gamut

Sufficient to even cover Japan colour standards, the AccurioJet KM-1e's wide colour gamut ensures accurate colour reproduction, no matter what's required.

AccurioJet KM-1e with **HD**



Highly functional and accurate colour management system

Konica Minolta's professional colour management software provides absolute consistency in colour reproduction.

Accurate registration and print quality

Employing UV ink, the AccurioJet KM-1e with HD avoids any waving and curling of paper usually associated with the heat fixing and drying aqueous inkjet systems require. Instead, our digital inkjet press produces perfect high-quality prints with highest registration accuracy.

Adjustable ink volume to match paper and printing objectives

In addition to its standard mode, the AccurioJet KM-1e with HD offers two additional print modes, one for coated paper that requires high-quality imaging, and another for uncoated paper that requires a matte texture.



EXCELLENT OPERABILITY FOR EFFICIENT WORKFLOW

RETHINK EFFICIENCY

Enhanced data processing system “IJ Manager”, a system easily incorporated into existing offset workflows, newly developed interface for inline connection with various types of post-press equipment, newly adopted tape inserter to improve work efficiency in post-press operation.

IJ MANAGER

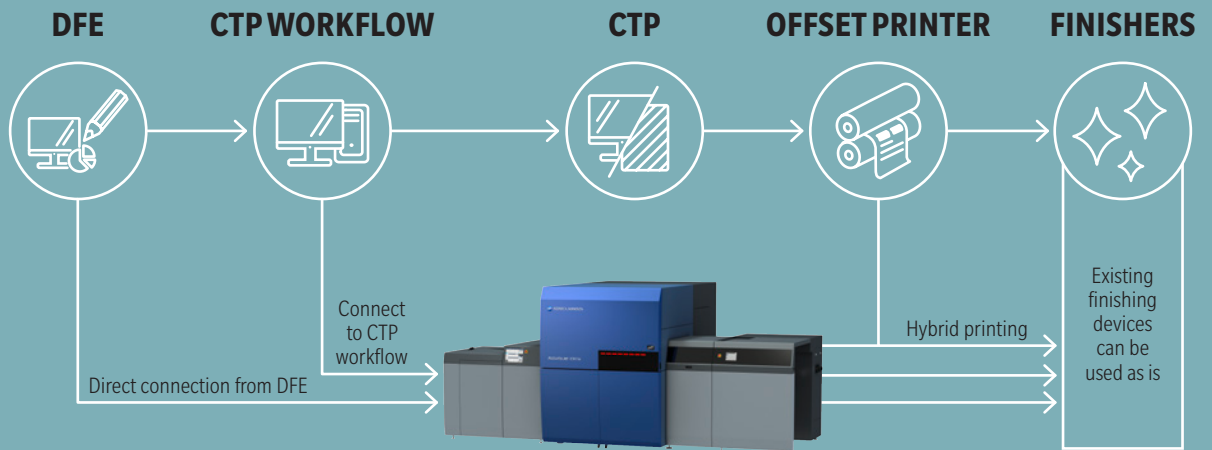
The system incorporates a high-speed RIP for full VD processing, sensors to detect the nozzle jet status and an algorithm to compensate for defective nozzles on the fly.

VARIABLE DATA PRINTING

The simple but clever process of automatically inserting tape between different jobs much enhances your work efficiency during post-press operation.

SUPPORTS HYBRID PRINTING

KM-1e HD is capable of outputting prints receiving files from general DFE (Digital Front End) or CTP workflow RIP and supports hybrid workflows where the user can freely choose between offset printing and digital printing as required.

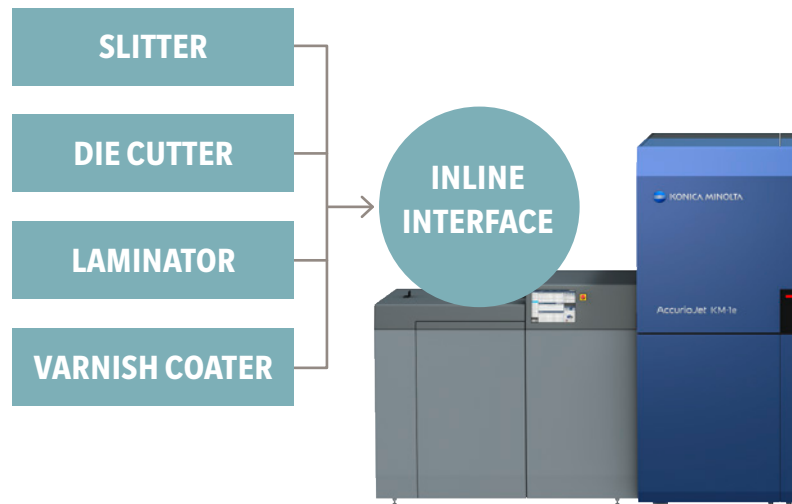


NEWLY ADOPTED TAPE INSERTER

With a newly developed interface, post-processing can now easily be completed in-line, improving your overall work efficiency and facilitating shorter turnarounds.

INLINE INTERFACE FOR 3RD PARTY POST-PRESS EQUIPMENT

Post-processing can now be completed in-line with a newly developed interface to improve work efficiency and facilitate short turnaround.





KONICA MINOLTA

TECHNICAL SPECIFICATIONS

RETHINK INKJET

SYSTEM SPECIFICATIONS

Type	B2+ perfecting sheet-fed full colour UV inkjet digital press
Resolution	1,200 x 1,200 dpi
Ink	LED UV ink
Number of colours	4 (extended gamut CMYK)
Print speed	Up to 3,000 sheets/hour (simplex) Up to 1,500 sheets/hour (duplex)
Sheet size	Up to 585 x 750 mm
Max. printable area	575 x 735 mm (simplex) 575 x 730 mm (duplex)
Sheet thickness	0.06 to 0.6 mm (simplex) 0.06 to 0.45 mm (duplex)
Processable substrates	Uncoated, coated, art coated paper; coloured paper; metallic paper; transparency media; plastic media; canvas; stone paper
Data format	PDF Ver.1.7, PDF/X 1a.3.4.5, PDF/VT-1, TIFF Ver.6 compliant, PPML Ver.2.2
Print mode	Rich Standard Economy (ink saving mode)
Power source	3 phase 200V 335A (50Hz/60Hz)
Device dimensions (WxDxH)	5,369 x 2,947 x 2,325 mm
Device weight	Main body: approx. 8,100 kg Ancillary facility: approx. 2,000 kg

- Inkjet LED UV ink developed by Konica Minolta for high-definition, single-pass applications
- The support and availability of the listed specifications and functionalities varies depending on operating systems, applications and network protocols as well as network and system configurations
- Specifications are based on the information available at the time of printing and are subject to change without notice
- Konica Minolta does not warrant that any prices or specifications mentioned will be error-free
- All the above specifications are subject to change without notice
- All brand and product names may be registered trademarks or trademarks of their respective holders and are hereby acknowledged